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A scan engine is disclosed for use in a data collection device, as well as a method for producing a scan engine and an image sensor assembly. The scan engine includes a housing with an opening for receiving light from a scanned dataform, an image sensor which is located within the housing to sense light entering an aperture in the image sensor, and a prism located within the housing for receiving light from the opening along a first path and to provide at least a portion of the received light to the aperture along a second path.